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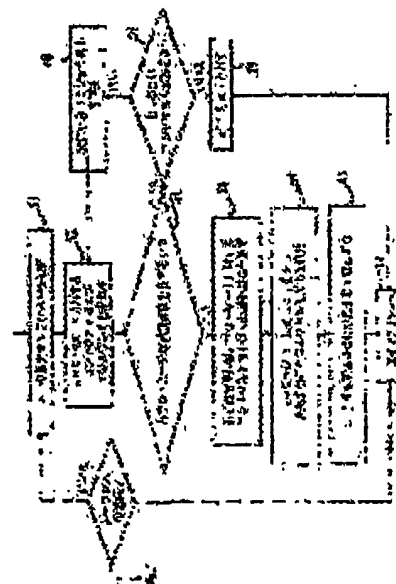
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(54) METHOD FOR CORRECTING NOISE ERROR IN DIGITAL SIGNAL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an apparatus and method for generating a processed digital signal with less signal damage than a received digital signal.

SOLUTION: The apparatus and method is disclosed for processing a received signal [22] damaged by a channel [20] to generate a processed signal [23] with less signal damage than the received signal [22]. An apparatus [10] stores the received signal [22], information for designating a probability wherein the symbol of a value I is converted into the symbol of a value J by the channel [20], and information for designating a signal deterioration function for measuring signal deterioration that occurs when the symbol of the value I is replaced with the symbol of the value J. A controller [11] replaces each symbol of the value I with the symbol of the value J in context [24] of the symbol in the received signal [22]. This value J minimizes all the signal deterioration of the processed signal [23] relating to a signal [21] in which there is no basic noise, estimated via the statistics observed in the context [24].



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